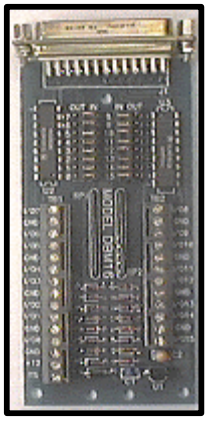
Distributed by:

JAMECO® ELECTRONICS

www.Jameco.com ✦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.



Model DBM16

Digital Buffer for 232SDD16 & 485SDD16 Digital I/O Modules

Document No. DBM162595

The DBM16 provides buffering and increased power handling (100ma) for the SDD16 digital I/O modules. It has 16 digital I/O lines that can be individually defined as either an input or as an output by setting jumpers on the DBM16. Any of the 16 I/O lines can be used to control voltages as high as 50Vdc. Input lines are pulled up through internal resistors. Output lines are open-collector transistors that can control electro-mechanical relays, solid state relays, CMOS, and TTL logic circuits. The DBM16 plugs directly into the digital I/O module through a DB25P connector, terminal blocks provide all power, ground, and I/O line connections.

I/O Connector to Terminal Block Chart

DB-25P Pin #	Function	T.B. Label	DB-25P Pin #	Function	T.B. Label
1	No connection		14	I/O line #15	I/O15
2	No connection		15	I/O line #14	I/O14
3	No connection		16	I/O line #13	I/O13
4	No connection		17	I/O line #12	I/O12
5	No connection		18	I/O line #11	I/O11
6	No connection		19	I/O line #10	I/O10
7	Signal Ground	GND	20	No connection	
8	+12Vdc Input	+12	21	I/O line #9	I/O9
9	I/O line #0	I/O0	22	I/O line #8	I/O8
10	I/O line #1	I/O1	23	I/O line #7	I/O7
11	I/O line #2	I/O2	24	I/O line #6	I/O6
12	I/O line #3	I/O3	25	I/O line #5	I/O5
13	I/O line #4	I/O4			

Specifications

I/O Lines

Total:	16 (Factory default - set to inputs)
Inputs	
Voltage Range:	0 Vdc to +50 Vdc
Low Voltage:	0 Vdc to +1.5 Vdc
High Voltage:	+2.5 Vdc to +50 Vdc
Pull UpCurrent:	0.5 milliamps
Outputs	
Output Voltage:	+50 Vdc max.
Output Current:	350 milliamps max. - only 1 output on. 100 milliamps max. - all outputs on.
Output leakage current:	50 microamps max.
Output saturation voltage:	1.1 Vdc max. @ 100 milliamps
Total power dissipation:	2 watts max. for Outputs #0 - 7 2 watts max. for Outputs #8 - 15

Power Supply:

Input Voltage:	+8 Vdc to +16 Vdc @ 10 milliamps (Doesn't include the power consumption of external devices.)
Connection:	Terminal Blocks

Size: 0.5" x 2.1" x 4.5"

© B&B Electronics -- January 1995